- 1 1. A method for managing a data imaging service from a management terminal in a
 2 distributed computer system having a host computer system with at least one
 3 storage device connected to the computer system by driver software, the method
 4 comprising:
 - (a) inserting an interface layer between the driver software and the storage device, the interface layer exporting a platform dependent API and controlling data passing between the driver software and the storage device;
 - (b) running, in the host computer system, management facade software that converts the interface layer API to platform-independent method calls;
 - (c) running, in the host computer system, a federated bean that generates method calls to the management facade to control the interface layer; and
 - (d) controlling the federated bean to designate master volumes, shadow volumes and bitmap volumes and to transfer data between specified master and shadow volumes.
 - 2. The method of claim 1 wherein step (d) comprises controlling the federated bean with a command line interface.
- The method of claim 1 wherein step (d) comprises controlling the federated bean with a graphical user interface.
- 1 4. The method of claim 1 wherein step (d) comprises:
- 2 (d1) creating a volume set; and
- designating a master volume, a shadow volume and a bitmap volume as part of the volume set; and
 - (d3) performing data imaging operations on the volume set.

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- 5. The method of claim 4 wherein a plurality of volume sets are created and wherein the method further comprises:
 - (e) creating a set group; and
- 4 (f) adding selected volume sets to the set group; and
 - (g) controlling the set group with a single command to perform data imaging operations on each set in the set group.
- 1 6. The method of claim 4 further comprising attaching an overflow volume to the volume set.
 - 7. The method of claim 4 wherein the computer system has a first host with a volume set thereon and a second host and the method comprises exporting a shadow volume in the volume set from the first host.
 - 8. The method of claim 7 further comprising importing the shadow volume exported by the first host into the second host.
 - 9. Apparatus for managing a data imaging service from a management terminal in a distributed computer system having a host computer system with at least one storage device connected to the computer system by driver software, the apparatus comprising:

an interface layer located between the driver software and the storage device, the interface layer exporting a platform dependent API and controlling data passing between the driver software and the storage device;

management facade software that runs in the host computer system and converts the interface layer API to platform-independent method calls;

a federated bean that runs in the host computer system and generates method calls to the management facade to control the interface layer; and

overflow volume to the volume set.

between specified master and shadow volumes.

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The apparatus of claim 12 further comprising program methods for attaching an

a presentation program that controls the federated bean to designate

master volumes, shadow volumes and bitmap volumes and to transfer data

The apparatus of claim 9 wherein the presentation program comprises a

- 1 15. The apparatus of claim 12 wherein the computer system has a first host with a volume set thereon and a second host and the apparatus comprises means for exporting a shadow volume in the volume set from the first host.
- 1 16. The apparatus of claim 15 further comprising means for importing the shadow volume exported by the first host into the second host.
 - 17. A computer program product for managing a data imaging service from a management terminal in a distributed computer system having a host computer system with at least one storage device connected to the computer system by driver software, the computer program product comprising a computer usable medium having computer readable program code thereon, including:

interface layer program code located between the driver software and the storage device, the interface layer code exporting a platform dependent API and controlling data passing between the driver software and the storage device;

management facade software that runs in the host computer system and converts the interface layer API to platform-independent method calls;

a federated bean that runs in the host computer system and generates method calls to the management facade to control the interface layer; and

a presentation program that controls the federated bean to designate master volumes, shadow volumes and bitmap volumes and to transfer data between specified master and shadow volumes.

- 1 18. The computer program product of claim 17 wherein the presentation program comprises a command line interface.
- 1 19. The computer program product of claim 17 wherein the presentation program comprises a graphical user interface.

20. A computer data signal embodied in a carrier wave for managing a data imaging service from a management terminal in a distributed computer system having a host computer system with at least one storage device connected to the computer system by driver software, the computer data signal comprising:

interface layer program code located between the driver software and the storage device, the interface layer code exporting a platform dependent API and controlling data passing between the driver software and the storage device;

management facade software that runs in the host computer system and converts the interface layer API to platform-independent method calls;

a federated bean that runs in the host computer system and generates method calls to the management facade to control the interface layer; and

a presentation program that controls the federated bean to designate master volumes, shadow volumes and bitmap volumes and to transfer data between specified master and shadow volumes.